1733

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Applicant	:	**Richard Greven**
Application No.	:	**09/236,017**
Filed	:	**January 22, 1999**
For	:	**COMPLEX SHAPED ARTICLES AND METHOD OF MANUFACTURE**
Art Unit	:	**1733**
Examiner	:	**Jessica L. Rossi**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Honorable Sir:

LETTER

Responsive to the office action of October 10, 2003.

Claims 17-35 have been renumbered 22-40, and claims 23-40 have been listed as non elected with transverse (copies attached).

Applicant wishes to express his appreciation to Examiner Rossi for the interview with Applicant's attorney. During the interview, claim 22 was discussed with respect to the Gnagy '535 reference. Examiner Rossi said that claim 22 would distinguish over Gnagy. However, further searching would have to be conducted. This concurs with the substance of the interview, as stated by Examiner Rossi in the office action of January 21, 2004.

Claim 22 has been corrected as indicated by the Examiner in the office action of January 21, 2004, by changing "open face" to "open surface".

The claim distinguishes over Gnagy for amongst other reasons, steps d and e in the claim.

For the aforementioned reasons, claim 22 should be allowed and an action to that effect is respectfully solicited.

A check in the amount of $210.00 for a two month extension is enclosed.

Charge any pertinent fees to Deposit Account No. 06-0515.

Respectfully submitted,

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Leslie Lim

22. (Amended renumbered claim 17) a method of forming a complex aerodynamic and hydrodynamic shape comprising the steps of:

a. trimming a honeycomb material to a desired shape, said shape comprising a core having a top surface, a bottom surface and side edges.

b. abutting said trimmed honeycomb core against an open mold, said mold having an open surface and a predetermined contour and shape;

c. conforming said honeycomb core to the shape of said mold by applying pressure to [the upper] said top surface of said trimmed honeycomb core;

d. [after initiating] before removing said pressure and before removing said core from said mold. cutting said conformed honeycomb core [laterally, along a line parallel to the longitudinal axis] substantially parallel to the open surface of the mold, whereby said honeycomb has a thickness defined by the distance between the mold contour and the cut surface [to a desired thickness] ;

e. releasing said pressure so that said honeycomb forms a surface between opposed sides on the upper surface of said article, that is higher than at least one of said opposed sides.

23. (non elected renumbered claim 18) An article formed according to the method in claim 1 wherein said article includes a surface extending along its longitudinal axis from the front end to the rear end thereof and a surface extending across its transverse axis between the opposed sides of said article wherein a convex, surface is defined on the upper surface of said article.

24. (non elected renumbered claim 19) An article formed according to the method in claim 1 wherein said article includes a contoured, arcuate shape on at least one opposed side thereof and a contoured arc extending across its transverse axis between the opposed side of said article wherein a convex arc is defined between said opposed sides on one surface of said article, and wherein said arc is significantly higher between said opposed sides and tapering therefrom across said transverse axis and along said longitudinal axis to a significantly flat shape on the other surface.

25. (non elected renumbered claim 20) An article formed according to method as claimed in claim 1 wherein said article includes a contoured, arcuate shape on at least two opposed sides thereof and a contoured arc extending across its transverse axis between the opposed sides of said article wherein a convex, arc is defined between said opposed sides on one surface of said article, and wherein said convex arc is significantly higher at one of said opposed sides and tapering

therefrom across said transverse axis and along said longitudinal axis to a significantly lower height at the other of said opposed sides.

26 (non elected renumbered claim 21) The article of claim 2 wherein said surface extending along its longitudinal axis is tapered.

27. (non elected renumbered claim 22) The article of claim 2 wherein said surface extending along its longitudinal axis is rounded.

28. (non elected renumbered claim 23) The article of claim 2 wherein said surface extending along its transverse axis is tapered.

29. (non elected renumbered claim 24) The article of claim 2 wherein said surface extending along its transverse is rounded.

30 (non elected renumbered claim 25) The article of claim 2 wherein the said surface along the transverse axis is symmetrical.

31. (non elected renumbered claim 26) The article of claim 2 wherein the said surface along the longitudinal axis is symmetrical.

32. (non elected renumbered claim 27) The article of claim 2 wherein a concave said surface is defined on the lower surface.

33. (non elected renumbered claim 28) The article of claim 2 wherein a convex contour is defined on the lower surface.

34. (non elected renumbered claim 29) The article of claim 2 wherein a flat surface is defined on the lower surface.

35. (non elected renumbered claim 30) The article of claim 4 wherein said contour extending along its longitudinal axis is tapered.

36. (non elected renumbered claim 31) The article of claim 4 wherein said contour extending along its longitudinal axis is rounded.

37 (non elected renumbered claim 32) The article of claim 4 wherein said contour extending along its transverse axis is tapered.

38 (non elected renumbered claim 33) The article of claim 4 wherein said contour extending along its transverse axis is rounded.

39 (non elected renumbered claim 34) The article of claim 4 wherein the contour along the transverse axis is symmetrical.

40 (non elected renumbered claim 35) The article of claim 4 wherein the contour along the longitudinal axis is symmetrical.